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(54) Title: TRANSCRIPTION FACTOR

(57) Abstract: Provided are nucleotide sequences which encodes a sugar-signalling transcription factors capable of activating a promoter of a gene encoding an enzyme involved in the synthesis or deposition of starch e.g. in response to sugar levels in a plant. Preferred sequences encode WRKY proteins such as the sugar signalling in barley2 (SUSIBA2) factor and variants thereof, and act on promoters which comprise at least one SURE element and/or W box element to which the transcription factor binds (e.g. promoters such as *isol*, *sbel*, *sbellb*, *ssl*, *agpaseS*). The invention also provides related methods and materials e.g. for activating, modulating, and investigating the elements present in such promoters.